

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of claims:

1. (Currently Amended) An apparatus comprising:
a base unit for coupling to a telephone line; and
a remote unit for communicating with the base unit over a wireless medium;
wherein the base unit includes a transmitter for direct analog modulation of an original analog voiceband data signal received over the telephone line and transmitting the modulated signal over the wireless medium, and level control circuitry coupled to the transmitter that controls a level of the original analog voiceband data signal to be substantially in a linear range of the transmitter; [[and]]
wherein the remote unit includes a receiver for receiving the modulated signal over the wireless medium and direct analog demodulation of the original analog voiceband signal, and an interface to a modem circuit for decoding a data stream encoded in the original analog voiceband signal; [[.]]
wherein the level control circuitry that controls a level of the signal comprises an automatic gain control circuit that controls a peak level of the signal; and
wherein the automatic gain control circuit uses a dial tone of a telephone connection or a DC current of a telephone loop to set a gain level for the original signal at a beginning of communication, the gain level remaining substantially constant during communication.

2-5. (Canceled)

6. (Previously Presented) The apparatus of claim 1, wherein the data signal is transmitted over a radio channel using multi-level frequency shift keying (FSK) modulation.

7. (Previously Presented) The apparatus of claim 1, wherein the remote unit is in communication with the base unit and a computer, the remote unit receiving an original voiceband data signal from the computer, generating an RF modulated signal based on the original signal from the computer, and transmitting the RF modulated signal to the base unit.

8. (Previously Presented) The apparatus of claim 7, wherein the remote unit includes an RF transmitter and an RF receiver, the remote unit establishing wireless communication with the base unit, the remote unit communicating with the base unit by wireless communication via an RF transmitter and RF receiver, and the remote unit communicating with the computer via a wired link.

9. (Previously Presented) The apparatus of claim 1, wherein
the base unit includes a ring detector coupled to the telephone line for detecting a ring signal on the telephone and providing a ring indication signal to the transmitter for transmission over the wireless medium to the remote unit;
and
the remote unit includes a ringer emulator coupled to the receiver for receiving the ring indication signal and emulating a ring signal on a telephone interface.

10. (Previously Presented) The modem of claim 7, wherein the remote unit includes a switch for selecting a type of medium over which to transmit and receive the data signal.

11-19. (Canceled)

20. (Previously Presented) The apparatus of claim 1 wherein the remote unit further comprises a modem circuit coupled to the remote unit.

21. (Previously Presented) The apparatus of claim 20 wherein the modem circuit includes an echo canceller for reducing echoes on the demodulated original analog voiceband data signal and a CODEC for decoding the original analog voiceband data signal.